PSC-240 Series



Input: 85-264VAC 47/63Hz Output Voltage: 24 & 48 V DC Rated Power: 240W max.















Parallel (FC)

FEATURES

- Universal AC input range (85~264Vac)
- Support 1+1 or N+1 redundant system (suggest to use redundancy modules.)
- Built-in active PFC, PF>0.95
- High efficiency up to 94%
- Built-in current sharing function
- · Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-25°C~70°C)
- 150% (360W) peak load capacity

- · Easy Fuse Tripping due to High Overload Current
- · Excellent Partial Load Efficiency
- . Built-in DC OK relay contact
- Can be installed on 35 mm DIN rail
- 100% full load burn-in test
- · PCB with conformal coating
- · Suitable for critical applications
- · Ultra-slim, 45mm width
- · Three-year Warranty

CATALOG NUMBER PSC-24024 **PSC-24048**

INPUT	Voltage Range Frequency Range Power Factor (typical) AC Current (max.) Inrush Current (Typical) Leakage Current Efficiency (Typical) @230Vac	85Vac~264Vac, 120Vdc-375Vdc 47Hz~63Hz 0.99/110Vac 0.95/230Vac <3.0 A/100Vac <1.5A/230Vac <20A/110Vac <40A/230Vac Cold start Input—output: ≤0.25mA Input—PG: ≤3.5mA	93.8%
OUTPUT	DC Output Rated Current Current Range Note 1 Ripple and Noise (0~70°C) Note 2 (-25°C) Voltage ADJ. Range Voltage Accuracy Line Regulation Load Regulation Set-up Time Hold up Time Temperature Coefficient Overshoot Power boost Parallel function	24V 10A 0~10A ≤240mV ≤480mV 24~28V ±3.0% ±0.5% ±1.0% <3\$@230Vac ≥20mS(230Vac input, Full load) ±0.03%/°C <5.0% 150% of rated current supported	48V 5A 0~5A ≤480mV ≤480mV 48~56V
ENVIRONMENTAL	Operating amb. Temp. & Hum. Storage Temp. & Hum.	-25°C~70°C; 20%~90%RH No condensing -40°C~85°C; 5%~95%RH No condensing	
PROTECTIONS	Overload Protection Over Voltage Protection Short Circuit Protection Over Current Protection	>130%-200% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fa 110~145% Protection Type: Clamp by Zener diode Protection to Zero Voltage 110%-180%	ault condition is removed
SAFETY & EMC Note 3	Safety Standards Withstand Voltage Isolation Resistance EMC Emission Harmonic Current EMC Immunity	UL508; UL62368-1; UL60950-1; IEC62368-1, EN62368-1 Primary-Secondary:3.0KVac/10mA .Primary-PG:2.5KVac/10r 10M ohms Compliance to EN55032 Class B Compliance to EN61000-3-2, Class A Compliance to EN61000-4-2,3,4,5,6,11;	mA. Secondary-PG:0.5KVac/20mA.
OTHER	MTBF (MIL-HDBK-217F) Dimension (L*W*H) Packing Cooling method	More than 300,000Hrs (25°, Full load) 45*124*119mm 24pcs/CTN, 21Kgs/CTN, 0.045cbm Cooling by free air convection	

Cooling by free air convection

NOTES

- 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25° of ambient temperature.
- 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.
- 3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies".

PSC-240 Series

Altech Corp.

Mechanical Specification

1 AC terminal blocks installation information

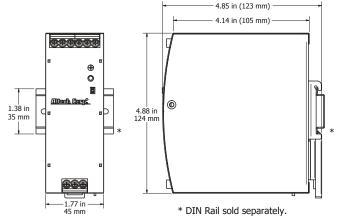
AC terminal blocks installation information			
Terminal No.	Function	Wire Spec	Recommended
			Torque
1	PG		
2	N	20~10AWG	5Nm
3	L		

2.DC terminal blocks installation information

E.BC terrima blocks installation information			
Terminal No.	Function	Wire Spec	Recommended
			Torque
4 & 5	DC OK Relay Contact		
6 & 7	+V	20~10AWG	5Nm
8 & 9	-V		

AC/DC Terminal

Туре	Screw terminal blocks
Solid Wire	0.5-6mm2
Strand Wire	0.5-4mm2
Wire Spec	AWG20-10 (PG Wire>18AWG)
Max Wire Diameter	2.8mm
Recommended stripping length	7mm
Screwdriver	3.5mm Straight or Cross Screwdriver
Recommended Torque	5NM

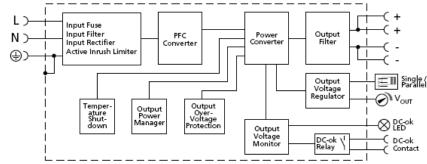


Additional Functions

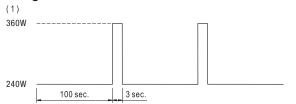
DC-OK	V On: when output voltage is up to 90% of rated output voltage V Off: when output voltage is down to 80% of rated output voltage
DC-OK relay contact rating	Max 30V/1A or 60V/0.3A or 30Vac/0.3A Resistive load

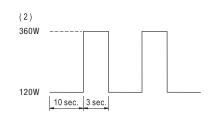
Block Diagram

Functional Diagram

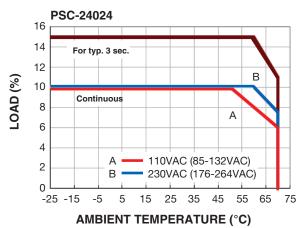


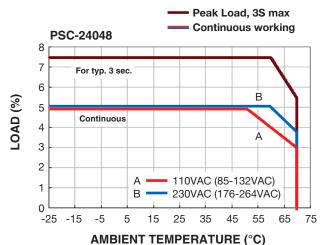
Peak Loading





Derating Curve





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